

RESUME OF RAVI CHANDRA JAMMALAMADAKA

Contact Information

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Objective

Obtain a research and development job focussing on information retrieval, web search, data mining and data management.

Education

PHD in Information and Computer Sciences Sep 2006 - Sep 2008

University of California - Irvine. GPA 4.0/4.0

Thesis: *Providing Secure Web based Data Services in Untrusted Environments*

Master of Science in Computer Engineering Sep 2001 - Sep 2004

University of California – Irvine, GPA 3.883

Major: Computer Networks and Distributed Computing

Bachelor of Computer Engineering and Computer Science Sep 1997 - June 2001

University of madras, India. Passed with Distinction.

Work Experience

Sr. Research Scientist/Software Engineer: eBay, Inc. Sep 2008 – Current

- Worked on improving search relevance, search ranking functions and query refinement techniques.
- Worked on click fraud and bot detection systems.
- Worked on Algorithms used for query rewriting.
- Designed and implemented systems that are currently running live on site.

Research Assistant: University of California, Irvine Sep 2001 – Sep 2008

- Develop and demonstrate innovative software prototypes based on the innovative work done in the research lab.
- Be a position of judge and review research papers submitted to conferences and journals. Help in writing and submitting research grants.
- Conduct innovative research in database technology and document the results.

Research Intern: IBM TJ Watson Research Center June –Sep 2007

- Developed the SideCAR system that allows users to consent and control identity information collected by the web services for authentication.

RESUME OF RAVI CHANDRA JAMMALAMADAKA

- SideCAR was implemented as a part of the Higgins project at IBM TJ Watson Research Center.
- The research results were published as an IBM research report RC 24359.

Engineering Intern: Cisco Systems, Inc.

June - Sep 2004

- Designed and implemented automatic testing harnesses to run validation tests for Cisco related Routers, Clients, etc.

Software developer: KR Softnet Systems Ltd, India

Aug 2000 – Aug 2001

- Developed software modules for banking related software

Awards and Honours

1. Nominated for full membership of Sigma Xi Research Society.
2. Program committee member for IEEE ISI 2010, 2011 and ICDE 2010.
3. Received eBay buyer experience quality award 2010.
4. Received patent award for patent application titled Mining Product Recommendation from Query formulations, 2010.
5. Received patent award for patent application titled Analyzing Queries To Generate Product Intention Queries, 2010.
6. Received ICS fellowship from 2006-2008 at University of California, Irvine.

Patents

Sanjay Pundlkrao Ghatore Naren Chittar Ravi Chandra Jammalamadaka . ANALYZING QUERIES TO GENERATE PRODUCT INTENTION RULES. Patent application number: 20100179956.

1. Ravi Chandra Jammalamadaka. Mining Product Recommendations from Query Reformulations. Attorney Docket No 2043.838US1. Client Reference No. P1094US1

Skills

Programming languages: C, C++, JAVA,

Databases: IBM DB2, Oracle 11g, SQL Server 10.0,

Platforms: Linux, Solaris, Windows XP, Novel NetWare

Web technologies: ASP, JSP, XML, Active X, JavaScript

GUI: Eclipse, VB, VC++, Visual Café, JBuilder

Publications

1. Ravi Chandra Jammalamadaka, Ali Dasdan. Dictating Query Rewrites. Submitted to World Wide Conference, WWW 2011, Hyderabad.

RESUME OF RAVI CHANDRA JAMMALAMADAKA

2. Ravi Chandra Jammalamadaka, Naren Chittar, Sanjay Ghatore. Mining product intention rules from transaction logs of an ecommerce portal. Proceedings of the 2009 International Database Engineering & Applications Symposium.
3. Ravi Chandra Jammalamadaka, Roberto Gamboni, Sharad Mehrotra, Kent Seamons, Nalini Venkatasubramanian. DataGuard: An Interoperable Security Middleware for Untrusted Internet Data Storage. In the proceeding of 2008 ACM/IFIP/Usenix International middleware conference.
4. Ravi Chandra Jammalamadaka, Sharad Mehrotra, Kent Seamons, Nalini Venkatasubramanian. DataGuard: A Middleware DataGuard: A Middleware that Builds Secure Network Drives over Untrusted Internet Data Storage. Demo Paper. In the Proceedings of International Conference on Extending Database Technology (EDBT), 2008.
5. Ravi Chandra Jammalamadaka; Michael McIntosh; Paula Austel.. SideCAR: Secure Identity Consent and Authentication Responder. IBM Research Report RC24359.
6. Bijit Hore; Ravi Chandra Jammalamadaka; Sharad Mehrotra. Flexible Anonymization for Privacy Preserving Data Publishing: A Systematic Search based Approach. Proceedings of SIAM International Conference on Data Mining (SDM), 2007.
7. Ravi Chandra Jammalamadaka, Roberto Gamboni, Sharad Mehrotra, Kent Seamons, Nalini Venkatasubramanian. gVault. A Gmail Based Cryptographic Network File System. Proceedings of 21st Annual IFIP WG 11.3 Working Conference on Data and Applications (DBSEC), 2007.
8. Ravi Chandra Jammalamadaka. Middleware Support for Protecting Personal Data from Web Based Data Services. Middleware Doctoral Symposium (MDS), 2007.
8. RaviChandra Jammalamadaka; Sharad Mehrotra. Querying Encrypted XML documents. Proceedings of the IEEE International Database Engineering & Applications Symposium (IDEAS), 2006.
10. Ravi Chandra Jammalamadaka; Timothy van der Horst; Sharad Mehrotra; Kent Seamons; NaliniVenkatasuramanian. Delegate: A Proxy Based Architecture for Secure Website Access from an Untrusted Machine. 22nd Annual Computer Security Applications Conference (ACSAC), Miami, FL, December, 2006.
11. Ravi Chandra Jammalamadaka; Sharad Mehrotra; Nalini Venkasubramanian. PVault: A Client Server System Providing Mobile Access to Personal Data. Proceedings of the 2005 ACM Workshop on Storage Security and Survivability (StorageSS), 2005.

Select Research Projects and Software Artefacts:

Delegate

- Delegate is a proxy based architecture that allows secure website access from malware infested machines. Delegate prevents key logging, session hijacking, shoulder surfing and password sniffing attacks.
- The research results of this work were published in the ACSAC '06 conference.
- I also developed a prototype of the system to confirm its feasibility.

DataGuard

- DataGuard is an interoperable security middleware that provide a file system like interface on top of the storage offered by the Internet based data storage providers like Amazon S3 service.
- I designed and developed this system.
- Some of the results will be presented in the EDBT' 08 demo track.
- A prototype of the system can be accessed at <http://DataGuard.ics.uci.edu>.

RESUME OF RAVI CHANDRA JAMMALAMADAKA

DataVault

- DataVault is a service architecture where data sharing requirements are outsourced to an untrusted service provider.
- We propose techniques and algorithms that allow authentication, data storage and distribution via an untrusted server.
- The research results are currently available as a technical report and a prototype of system can be accessed at <http://www.ics.uci.edu/~rjammala/DataVault/>.

Other Information

Visa Status: F1 Visa with OPT and CPT options.

Languages: English, Hindi, Telugu.

References

Prof. Sharad Mehrotra

Professor of Dept. of Computer Science
University of California, Irvine

Mike McIntosh

Senior technical staff member
IBM TJ Watson Research Center

Prof. Kent Seamons

Computer Science Department
Brigham Young University

Michael Ortega-Binderberger

Member of technical Staff
Google inc, Mountain view.